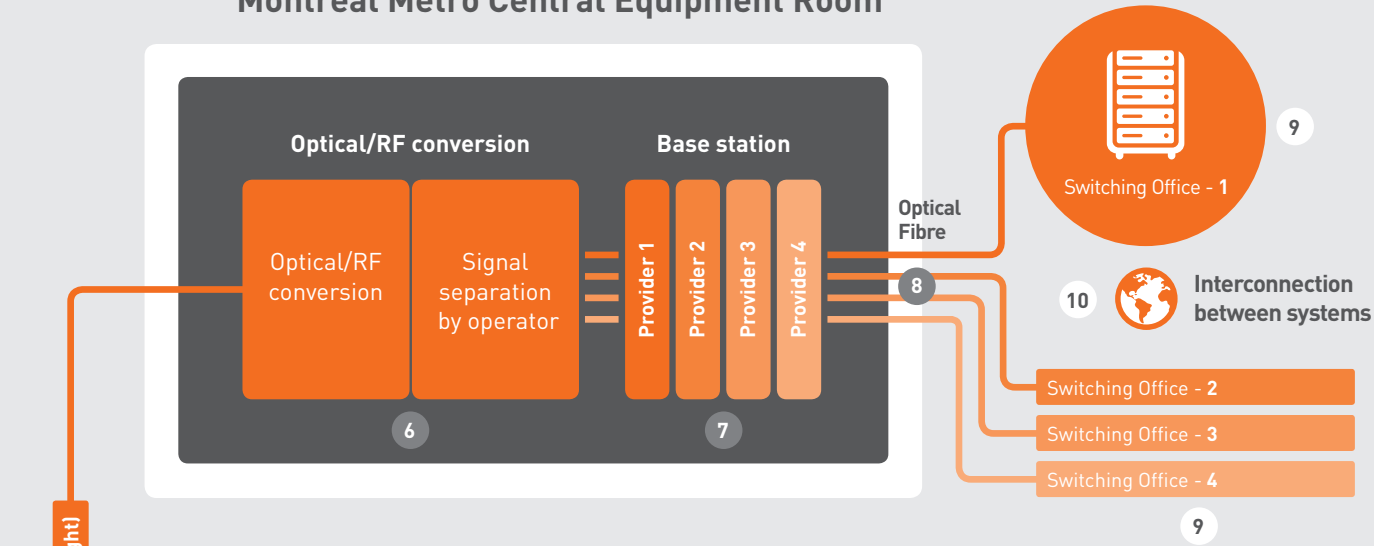
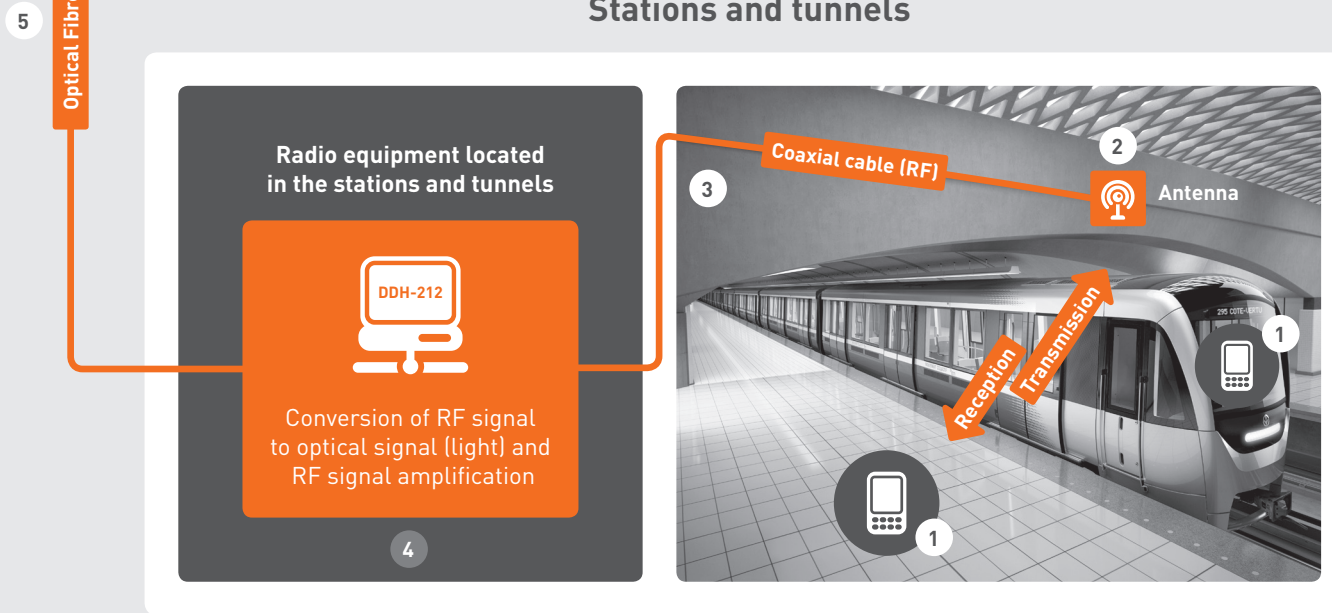


Montreal Metro Central Equipment Room



Stations and tunnels



The mobile devices users in the Montreal Metro (1) are connected to the mobile service network by transmitting and receiving radiofrequency (RF) signals to and from antennas (2). These antennas are located through the Metro stations and tunnels.

These RF signals are then relayed through coaxial cables (3) to amplifiers (4) that convert them into optical signals (light). The light signals are then sent to the central equipment room by the optical fibre network (5) installed through the 70 kilometres of the Metro tunnels and stations.

The light signals are then reconverted into an RF signal and separated by service provider (6) and then sent to each telecommunications company's base station (7). The signals are then reconverted to light and sent to the mobile telephone switching office of each operator (9) via each service provider's optical transmission network (8).

Voice and data calls are then sent to the proper destination thanks to multiple interconnections between the systems and networks (10).